IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Cheng-Lien Chiang

Assignee:

Bridge Semiconductor Corporation

Title:

THREE-DIMENSIONAL STACKED SEMICONDUCTOR

PACKAGE DEVICE WITH BENT AND FLAT LEADS

Serial No.:

Unknown

Filed:

Herewith

Examiner:

Unknown

Group Art Unit:

Unknown

Atty. Docket No.:

BDG005-6

COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 C.F.R. § 1.56 and §§ 1.97-1.98, Applicant hereby submits the enclosed Form PTO-1449.

Copies of documents cited on the enclosed Form PTO-1449 are not enclosed because they were previously cited by or submitted to the U.S. Patent Office in U.S. Application Serial No. 10/137,494 filed April 30, 2002, U.S. Application Serial No. 10/136,954 filed April 30, 2002 and/or U.S. Application Serial No. 10/042,812 filed January 9, 2002. The above-identified application is a continuation-in-part of the '494 application, which is a continuation-in-part of the '812 application. The above-identified application is also a continuation-in-part of the '954 application, which is a continuation-in-part of the '812 application.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, an admission that any of these documents, alone or in any combination, is considered to be material to patentability, an admission that any of these

documents is prior art as to the above-identified application, or an admission against interest in any manner.

This Information Disclosure Statement is filed before the mailing date of a first Office Action. Accordingly, no fee is due.

Respectfully submitted,

Signal

David M. Sigmond Attorney for Applicant Reg. No. 34,013

(303) 554-8371

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form PTO-14	149				Atty Do	cket No.	Serial No.	
U.S. Department of Commerce, Patent and Trademark Office					BDG005-6	5		
I.	NFORM	ATION DISCL	OSURE STAT	CEMENT	Applicar	nt		
	(Use	several sheet	s if necess	ary)	Cheng-Li			
					Filing I	Date	Group Art Unit	
	·		U.S.	Patent Documents				
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA	5,081,520	01/1992	Yoshii et al.	357	80		
	AB	5,241,133	08/1993	Mullen, III et al.	174	52.4		
	AC	5,394,303	02/28/95	Yamaji	361	749		
	AD	5,665,652	09/1997	Shimizu	438	127		
	AE	5,674,785	10/1997	Akram et al.	437	217		
	AF	5,744,827	04/28/98	Jeong et al.	257	686		
	AG	5,744,859	04/1998	Ouchida	257	668		
·	AH	5,804,771	09/1998	McMahon et al.	174	255		
	AI	5,811,879	09/1998	Akram	257	723		
	AJ	5,949,655	09/1999	Glenn	361	783		
	AK	6,013,877	01/2000	Degani et al.	174	264		
	AL	6,143,588	11/2000	Glenn	438	116		
_	AM	6,159,770	12/2000	Tetaka et al.	438	112		
	AN	6,274,927	08/2001	Glenn	257	680		
	0	ther Art (Incl	luding Autho	r, Title, Date, P	ertinent	Pages, Etc	.)	
	AO	Crowley, "So May 1998, pp		oments for CSP and	d FBGA Pa	ckages," Cl	hip Scale Review	
	AP	Forster, "So 1998, pp. 43		ges for Chip-Sca	le Packag	es," Chip	Scale Review, Ma	
AQ Amagai, "Chip-Scale Packages for Center-Pad Memory Devices," Chip Review, May 1998, pp. 68-77.							" Chip Scale	
	AR	Reliable Pac	kaging," Pro	PSGA, a Lead-Free oceedings of the 2 er 9, 2001, pp. 20	2001 Inte			
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I	NFORM	ATION DISCL	OSURE STATEMENT	Applicant			
	(Use	several sheet	cs if necessary)	Cheng-Lien Chiang			
				Filing Date	Group Art Unit		
							
*Examiner Initial		Other Art	(Including Author, Title, D	ate, Pertinent Pages	, Etc.)		
	AA	"Semiconducto	tion Serial No. 09/865,367, or Chip Assembly With Simulta Connection Joint"				
	AB	"Semiconducto	tion Serial No. 09/864,555, or Chip Assembly with Simultainal and Connection Joint"	filed May 24, 2001, e aneously Electroless	entitled ly Plated		
	AC		tion Serial No. 09/864,773, or Chip Assembly With Ball Bo				
	AD	of Making a S	tion Serial No. 09/878,649 for Semiconductor Chip Assembly way Y Formed Before and After Ch	with a Conductive Tra	entitled "Method ace		
	AE	U.S. Applicat of Connecting	tion Serial No. 09/878,626 fi g a Conductive Trace to a Ser	iled June 11, 2001, emiconductor Chip"	entitled "Method		
	AF	U.S. Applicat of Connecting	tion Serial No. 09/917,339 f g a Bumped Compliant Conduct	iled July 27, 2001, e ive Trace to a Semico	entitled "Method onductor Chip"		
	AG		tion Serial No. 09/927,216 for Chip Assembly with Harden		, entitled		
	АН		tion Serial No. 09/939,140 for Chip Assembly with Interlo				
	AI	U.S. Applicat "Method of Co Semiconductor	tion Serial No. 09/962,754 fi onnecting a Conductive Trace r Chip"	iled September 24, 20 and an Insulative Ba	001, entitled ase to a		
	ΙA	"Method of Co	tion Serial No. 09/972,796 fi onnecting a Bumped Compliant miconductor Chip"	iled October 6, 2001, Conductive Trace and	, entitled d an Insulative		
	AK	U.S. Applicat "Method of Co	tion Serial No. 09/997,973 fronnecting a Bumped Conductive	iled November 29, 200 e Trace to a Semicono)1, entitled ductor Chip"		
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			U.S.	Patent Documents			1	
*Examiner		Document					Filing D	
Initial	 	Number	Date	Name	Class	Subclass	If Appro	priate
	AA	4,706,166	11/10/87	Go	361	403		
	AB	4,807,021	02/21/89	Okumura	357	75		
	AC	4,897,708	01/30/90	Clements	357	65		
	AD	4,954,875	09/04/90	Clements	357	75		
	AE	4,984,358	01/15/91	Nelson	29	830		
	AF	4,996,583	02/26/91	Hatada	357	70		
	AG	5,049,979	09/17/91	Hashemi et al.	357	75		
	НА	5,104,820	04/14/92	Go, deceased et al.	437	51		
	AI	5,138,438	08/11/92	Masayuki et al.	357	75		
	АJ	5,332,922	07/26/94	Oguchi et al.	257	723		
	AK	5,484,959	01/16/96	Burns	174	524		
	AL	5,514,907	05/07/96	Moshayedi	257	723		
	AM	5,625,221	04/29/97	Kim et al.	257	686		
			Foreign	n Patent Documents	5			
							Transl	ation
	<u> </u>	Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
	Ot	ther Art (Incl	uding Author	r, Title, Date, Pe	ertinent	Pages, Etc	.)	
	AP	U.S. Applicat	tion Serial sional Stack	No. 09/917,358, f ked Semiconductor	iled Jul Package"	y 27, 2001,	entitled	L
	AQ	U.S. Applicates	tion Serial or Module wi	No. 10/052,810, f th Encapsulant Ba	iled Nov	ember 10, 2	001, enti	.tled
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing I		
	AA	5,804,874	09/08/98	An et al.	257	676			
	AB	5,854,507	12/29/98	Miremadi et al.	257	686			
	AC	5,861,666	01/19/99	Bellaar	257	686			
	AD	5,910,685	06/08/99	Watanabe et al.	257	777			
	AE	5,973,393	10/26/99	Chia et al.	257	690			
	AF	6,072,233	06/06/00	Corisis et al.	257	686			
	AG	6,124,633	09/26/00	Vindasius et al.	257	685			
	АН	6,231,364	05/15/01	Liu	439	326			
	AI	6,233,154	05/15/01	Farnworth et al.	361	752			
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AP Sugaya et al., "A New 3-D Module Using Embedded Actives and Passives," Proceedings of the 2001 International Symposium on Microelectronics, Oc. 9, 2001, pp. 248-253.						," October			
	AQ Nishida et al., "High Density Packaging Using Flip Chip Technology In Communication Equipment," Proceedings of the 2001 International Sympos Microelectronics, October 9, 2001, pp. 272-277.						n Mobile osium on		
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing D If Appro			
	AA	5,149,958	09/1992	Hallenbeck et al.	250	216				
	AB	5,264,714	11/1993	Nakaya et al.	257	78				
	AC	5,405,809	04/1995	Nakamura et al.	437	209				
	AD	5,834,835	11/1998	Maekawa	257	680				
	AE	5,834,843	11/1998	Mori et al.	257	723				
	AF	5,859,471	01/1999	Kuraishi et al.	257	666				
	AG	5,893,723	04/1999	Yamanaka	438	65				
	AH	6,265,770	07/2001	Uchiyama	257	698				
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	AN	JP-57100761	06/1982	Japan	HO1L	27/14		х		
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			U.S.	Patent Documents				
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	AA	3,627,901	12/1971	Нарр	174	52 PE		
	AB	3,678,385	07/1972	Bruner	324	158 F		
	AC	3,930,114	12/1975	Hodge	174	52 PE		
	AD	4,506,238	03/1985	Endoh et al.	333	138		
	AE	5,157,480	10/1992	McShane et al.	357	74		
	AF	5,207,102	05/1993	Takahashi et al.	73	727		
	AG	5,436,500	07/1995	Park et al.	257	696		
	АН	5,677,566	10/1997	King et al.	257	666		
	AI	5,866,939	02/1999	Shin et al.	257	666		
	AJ	5,894,107	04/1999	Lee et al.	174	52.2		
	AK	5,951,804	09/1999	Kweon et al.	156	244.12	1	
	AL	6,114,770	09/2000	Akram et al.	257	784		
	AM	6,130,116	10/2000	Smith et al.	438	127		
	AN	6,232,152	05/2001	DiStefano et al.	438	124		· · ·
	AO	6,297,543	10/2001	Hong et al.	257	666		
	AP	6,303,997	10/2001	Lee	257	778		
	AQ	6,326,700	12/2001	Bai et al.	257	790		-
	AR	6,445,077	09/2002	Choi et al.	257	786		
	AS	6,455,356	09/2002	Glenn et al.	438	123		
	AT	6,468,836	10/2002	DiStefano et al.	438	128		
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		Document	Date	Country	Class	Subclass	Yes	No
	AU	JP-01128897	05/1989	Japan	B42D	15/02		х
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing D	
	AA	6,001,671	12/1999	Fjelstad	438	112		
	AB	6,025,650	02/2000	Tsuji et al.	257	786		
	AC	6,281,568	08/2001	Glenn et al.	257	684		
	AD							
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing D			
	AA	6,198,171	03/2001	Huang et al.	257	787				
	AB	6,218,728	04/2001	Kimura	257	693				
	AC									
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